

Title (en)

RESISTANCE SPOT WELDING METHOD AND METHOD FOR MANUFACTURING WELDED JOINT

Title (de)

WIDERSTANDSPUNKTSCHWEISSVERFAHREN UND VERFAHREN ZUR HERSTELLUNG EINER SCHWEISSVERBINDUNG

Title (fr)

PROCÉDÉ DE SOUDAGE PAR POINTS PAR RÉSISTANCE ET PROCÉDÉ DE FABRICATION DE JOINT SOUDÉ

Publication

EP 4183510 A1 20230524 (EN)

Application

EP 21843432 A 20210526

Priority

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- JP 2021019986 W 20210526

Abstract (en)

Provided is a resistance spot welding method suitable for manufacturing a weld joint exhibiting excellent delayed fracture resistance. The resistance spot welding method includes sandwiching two or more overlapped steel sheets between a pair of welding electrodes, applying current to the steel sheets while pressing the steel sheets, forming a nugget on overlapping surfaces of the steel sheets to join the steel sheets, and after the joining, directly or indirectly irradiating the nugget with sound waves having a frequency of 10 Hz or more and 100000 Hz or less so that a sound pressure level on a surface of the steel sheet is 30 dB or more.

IPC 8 full level

B23K 11/11 (2006.01); **B23K 31/00** (2006.01)

CPC (source: EP KR US)

B23K 11/115 (2013.01 - EP KR US); **B23K 11/166** (2013.01 - EP); **B23K 11/36** (2013.01 - EP); **B23K 31/02** (2013.01 - US); **B23K 31/12** (2013.01 - KR US); **C21D 3/06** (2013.01 - EP); **B23K 2101/18** (2018.08 - EP); **B23K 2101/34** (2018.08 - EP); **B23K 2103/04** (2018.08 - EP); **C21D 9/46** (2013.01 - EP)

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